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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/784,330	02/23/2004	Anthony DiLeo	MCA-633 US	8718
25182	7590	10/14/2005		
MILLIPORE CORPORATION 290 CONCORD ROAD BILLERICA, MA 01821			EXAMINER KAUFMAN, JOSEPH A	
			ART UNIT	PAPER NUMBER
			3754	
DATE MAILED: 10/14/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/784,330	<b>Applicant(s)</b> DILEO, ANTHONY	
	<b>Examiner</b> Joseph A. Kaufman	<b>Art Unit</b> 3754	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 12 September 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1, 2, 4-6 and 11-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-6 and 11-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4, 6, and 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Keyes et al. in view of Cohen as taught by Sudolcan et al.

Keyes discloses all of the structure of claims 1, 2, 4, 6 and 11-15 with the exception of a pair of copper electroconductive terminals proximate the fill tube and control means responsive to the capacitance of the conductors for controlling the filling or release of fluid from the reservoir. Keyes does disclose a pair of optical terminals and a control means responsive to the optical terminals for controlling the filling or release of fluid from the reservoir.

Cohen teaches a fluid level sensing system having a pair of electroconductive terminals placed directly on the container. While Cohen is silent as to the material the electroconductive terminals are made from, copper is a well known conductor and malleable material and that one having ordinary skill in the art at the time the invention was made would have found that it would have been obvious to use copper for the electroconductive terminals because of copper's high conductivity and high malleability. The statement is taken to be admitted prior art because applicant failed to traverse the examiner's assertion of Official Notice in paragraph 4 of the office action dated 12/8/2004.

It also would have been obvious to one of ordinary skill in the art at the time the invention was made to use the detection system of Cohen in the apparatus of Keyes as a simple substitution of parts, that is to replace the optical sensors of Keyes with the electroconductive terminals as taught by Cohen since Sudolcan et al. teaches that optical sensors can have deficiencies when the material to be dispensed is less opaque, and that electroconductive terminals are more reliable for these types of materials.

3. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Keyes in view of Cohen as taught by Sudolcan et al. as applied to claim 1 above, and further in view of Freund.

Keyes, Cohen and Sudolcan et al. have been discussed above, but lack the use of pulsed current. Freund teaches an electroconductive flow meter using pulsed current. It would have been obvious to one of ordinary skill in the art to use pulsed current as taught by Freund on the device of Keyes at this would allow for nearly constant electrode output for a given set of fluid level conditions.

#### ***Response to Arguments***

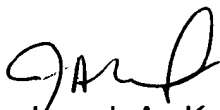
4. Applicant's arguments filed 9/12/2005 have been fully considered but they are not persuasive. Applicant disagrees with the motivation for combining the references. As no reason is given why the motivation is deficient, the argument is moot. Applicant contends that none of the references show a disposable cartridge. As Keyes shows the same types of reservoirs as applicant and the reservoirs are clearly capable of being disposed of, the claimed requirement is met by Keyes.

**Conclusion**

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph A. Kaufman whose telephone number is (571) 272-4928. The examiner can normally be reached on Monday-Thursday, 5:30AM-2PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Mar can be reached on (571) 272-4906. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Joseph A. Kaufman  
Primary Examiner  
Art Unit 3754  
10/12/05

jak  
October 12, 2005